

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A method for transporting a molecule through a mammal's mammalian barrier membrane of at least one layer of cells comprising the steps of:  
contacting said mammalian barrier membrane with a sheet of a shear device,  
the sheet containing at least one opening;  
forcing a portion of said mammalian barrier membrane through the at least one opening;  
ablating said portion of said mammalian barrier membrane forced through the at least one opening with a shear member of said shear device, wherein the shear member ablates said portion of the mammalian barrier membrane by moving over the sheet and the at least one opening [comprising a sheet containing at least one opening and a shear member, where said sheet is contacted with said membrane such that a portion of said membrane is forced through said opening and ablates said portion of said membrane exposed through said opening]; and  
utilizing a driving force to [move] transport said molecule through [said perforated] the ablated portion of the mammalian barrier membrane.
2. (Original) A method of claim 1, wherein said shear member is a shear blade.
3. (Currently amended) A method of claim 2, wherein said portion of said mammalian barrier membrane is forced [into] through said opening by a pressure force.
4. (Original) A method of claim 3, wherein said pressure force is mechanical pressure.
5. (Original) A method of claim 3, wherein said pressure force is suction.
6. (Currently amended) A method of claim 1, wherein said shear device further comprises a driving unit configured to move said shear member [blade].

7. (Currently amended) A method of claim 6, wherein said driving unit is powered manually by [the] a user of the shear device.
8. (Currently amended) A method of claim 6, wherein said driving unit is powered by an electric motor of the shear device.
9. (Currently amended) A method of claim 1, wherein said mammalian barrier membrane is selected from the group consisting of skin, buccal, vaginal, and rectal membranes.
10. (Currently amended) A method of claim 1, wherein said mammalian barrier membrane is human skin.
11. (Original) A method of claim 1, wherein said driving force is selected from a group consisting of iontophoresis, electro-osmosis, reverse iontophoresis, electroporation, phonophoresis, pressure gradients, and concentration gradients.
12. (Currently amended) A method of claim 1, wherein said molecule is a pharmaceutical transported through said mammalian barrier membrane into said mammal.
13. (Original) A method of claim 12, wherein said pharmaceutical is selected from the group consisting of polysaccharides, peptides, proteins, and polynucleotides.
14. (Original) A method of claim 12, wherein said molecule is a vaccine.
15. (Original) A method of claim 14, wherein said molecule is a vaccine against *Staphylococcus aureus*
16. (Currently amended) A method of claim 1, wherein said molecule is transported from within said mammal out through said mammalian barrier membrane.
17. (Original) A method of claim 16, wherein said molecule is glucose.

18. (Currently amended) A method of claim 6, wherein said shear device further comprises a sensor[,] configured for [the] feedback from said sensor [modifies] to control said driving unit.
19. (Original) A method of claim 18, wherein said sensor is selected from the group consisting of pressure sensor, conductivity sensor, impedance sensor, pH and temperature sensor.
20. (Currently amended) A method of claim 1, wherein said [sheer] shear member moves parallel to said [sheer] sheet.
21. (Currently amended) A method of claim 2, wherein said [sheer] shear blade moves parallel to said [sheer] sheet.
22. (Currently amended) A method of claim 19, wherein said sensor is an impedance sensor measuring the impedance of the mammalian barrier membrane.
23. (Currently amended) A method of claim 22, wherein the measurements from said impedance sensor are relayed to a microprocessor of the shear device.
24. (Currently amended) A [M]method of claim 1, wherein the area of at least one of said at least one opening is about 0.001 to 5 mm<sup>2</sup>.